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CENTRAL INTELLIGENCE AGENCY

REPORT NO. [REDACTED]

## INFORMATION REPORT

CD NO. 25X1A

COUNTRY Czechoslovakia

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INFO. [REDACTED]

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REPORT NO.

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1. Industrial research in Czechoslovakia is handled entirely by the state either in state research institutes, such as the State Health Institute, or under governmental control in research laboratories attached to the general managements of the various industries. Each national corporation reports annually to the general management under which it is organized all technical problems which arise during the year. The general management assembles the reports of all the corporations under its jurisdiction and forwards them to the State Planning Office, which farms out the research problems to the research laboratory of the appropriate general management. All research institutes attached to individual national corporations are in the process of liquidation.
2. The Military Technical Institute (VTU) is independent of the procedure described above, and conducts its own research on industrial as well as military problems. The VTU, located in Prague-Dejvice, includes departments for research in weapons, cartography, chemistry, photography, radiotelegraphy, electronics, light metals, metallography, analysis (sic), fuels and lubricants, textiles and tanning, material testing and measuring, construction of fortifications (sic), and health.\* The Institute lacks experts trained in industry.
3. The state research institutes include the State Health Institute, the Agricultural Research Institute, the Forestry Research Institute, and the Bacteriological Research Institute, all located in Prague. Many of the research institutes of the general managements have not yet been organized. In spite of this, progress has been made in the past year especially in the field of finding substitutes for raw materials needed in Czech production which must be imported. Emphasis is being placed on research in plastics.
4. The following is a partial list of items on which Czech research and development programs are centered:
  - a. Organic chemicals:

Ethylene oxide\*\*  
 Urea  
 Ethanolamine  
 Cyclic amines  
 Higher fatty alcohols

Furfurol  
 Tetrahydrofurfurol  
 Anhydride of maleic acid  
 Benzidine  
 Xylenol

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Vinylalcohol	Taurin, an amino substance
Aeridyn acid and its derivatives	Sikavit, a catalyst for accelerated oil drying
Amino and amido derivatives of fatty acids	Styrol, cyclic alcohol

- b. Synthetics, in addition to buna, synthetic gasoline and fibers and montan wax, which are being produced and undergoing improvement:

Leather substitutes from waste  
 Glyptal, a condensate of glycerine plus anhydride of phthalic acid  
 Synthetic glass from condensates of Styrol and polyvinyl alcohol  
 Fatty acids from paraffine wastes of hydrogenation process  
 Mersol, a chlor-sulpho derivative of paraffine, to be used as a soap substitute  
 Synthetic waxes other than lignite wax  
 Waterproof dyes  
 Solvents for synthetic fibers produced from fatty acid condensates  
 Lead substitutes for lining chemical apparatus  
 Wood substitutes from phenolformaldehyde and cresolformaldehyde  
 Concrete substitutes  
 Waterproof lacquers  
 Chlorine derivatives of buna.

- c. Critical items, heretofore imported from the West:

Aluminum-magnesium alloys  
 Magnetic alloys with high hysteresis numbers  
 Resistance alloys with negative temperature coefficients and melting points higher than that of Constantan  
 Vacuum tubes; Tesla has no vacuum tube research department. All such research is carried on by the VTU, the Technical University, and a research institute connected with the Czech Postal Services.  
 Ultrasonics, conducted at the former Bata Research Institute in Gottwaldov, the laboratories of PAL National Corporation and of Metra National Corporation in Blansko.  
 Emulsions, conducted at the laboratories of the Stalin Works and Svit.  
 Vulcanization with the aid of ultrashort waves  
 Hydrogenation catalysts and by-products at the Stalin Works.

25X1A \* [REDACTED] Comment: The health department of the VTU is believed to be identical with the chemical department. See [REDACTED] 25X1A

25X1A \*\* [REDACTED] Comment: These items are reported exactly as received. For more details on ethylene oxide from the same source, see [REDACTED]

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